## **WEST Search History**

DATE: Friday, August 08, 2003

Set Name Query side by side		Hit Count	Set Name result set
DB=USPT; PLUR=YES; OP=OR			
L5	L3 and (pathogen same susceptibility)	75	L5
L4	L3 and (pathogen same susceptible)	83	L4
L3	L2 and mutat\$3	1784	L3
L2	L1 or C same elegans	6447	L2
L1	nematode	5554	L1

END OF SEARCH HISTORY

FILE 'HOME' ENTERED AT 13:10:11 ON 08 AUG 2003

=> medline biosis embase agricola scisearch caplus
MEDLINE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> file medline biosis embase agricola scisearch caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION

0.21

0.21

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 13:10:37 ON 08 AUG 2003

FILE 'BIOSIS' ENTERED AT 13:10:37 ON 08 AUG 2003 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'EMBASE' ENTERED AT 13:10:37 ON 08 AUG 2003 COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'AGRICOLA' ENTERED AT 13:10:37 ON 08 AUG 2003

FILE 'SCISEARCH' ENTERED AT 13:10:37 ON 08 AUG 2003 COPYRIGHT 2003 THOMSON ISI

FILE 'CAPLUS' ENTERED AT 13:10:37 ON 08 AUG 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s nematode

L1 98424 NEMATODE

=> s l1 and mutagen?

L2 690 L1 AND MUTAGEN?

=> s MAPK

L3 37796 MAPK

=> s 13 and esp-2

L4 0 L3 AND ESP-2

=> s 13 and esp-8

L5 1 L3 AND ESP-8

=> s 13 and pmk-1

L6 11 L3 AND PMK-1

=> s 16 and 12

L7 1 L6 AND L2

=> s 15 and 12

L8 1 L5 AND L2

=> dup rem
ENTER L# LIST OR (END):16
PROCESSING COMPLETED FOR L6

L9 5 DUP REM L6 (6 DUPLICATES REMOVED)

=> d 19 tot ibib abs

L9 ANSWER 5 OF 5

MEDLINE on STN

DUPLICATE 2

87501.843

ACCESSION NUMBER:

2001652695 MEDLINE

DOCUMENT NUMBER:

AUTHOR:

21561224 PubMed ID: 11703092

TITLE:

Isolation and characterization of pmk-(1

-3): three p38 homologs in Caenorhabditis elegans.

CORPORATE SOURCE:

Department of Pharmacology, University of Texas

Southwestern Medical Center at Dallas, 5323 Harry Hines

Boulevard, Dallas, TX 75390, USA.

Berman K; McKay J; Avery L; Cobb M

CONTRACT NUMBER: GM 53032 (NIGMS)

HL 46154 (NHLBI)

SOURCE:

MOLECULAR CELL BIOLOGY RESEARCH COMMUNICATIONS, (2001 Nov)

4 (6) 337-44.

Journal code: 100889076. ISSN: 1522-4724.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200201

ENTRY DATE:

Entered STN: 20011114

Last Updated on STN: 20021015 Entered Medline: 20020130

p38, a member of the mitogen-activated protein kinase (MAPK) AB superfamily, is activated in response to a variety of cellular stresses and ligands. Since the genome of the nematode C. elegans has been sequenced, we sought to identify and characterize the nematode homolog of mammalian p38. By sequence analysis and RT-PCR, we isolated cDNAs encoding three kinases, PMK-1, PMK-2, and PMK-3, which we call p38 map kinases due to their high sequence identity with p38. The three genes are contiguous on chromosome IV and comprise an operon. By use of a GFP reporter, we found that the promoter of the pmks is active throughout the intestine. An active form of MAPK/ERK kinase 6 (MEK6) phosphorylated and activated recombinant PMK-1 and PMK-2 in vitro. PMK-1 and PMK-2 phosphorylated activating transcription factor-2 (ATF-2), indicating an activity similar to mammalian p38. When transfected into mammalian cells, these kinases, like p38, are stimulated by osmotic stresses. Copyright 2001 Academic Press.

L20 ANSWER 24 OF 34 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN

ACCESSION NUMBER: 1999:283047 SCISEARCH

THE GENUINE ARTICLE: 184CL

TITLE: Organization and regulation of mitogen-activated protein

kinase signaling pathways

AUTHOR: Garrington T P (Reprint); Johnson G L

CORPORATE SOURCE: NATL JEWISH MED & RES CTR, DIV BASIC SCI, PROGRAM MOL

SIGNAL TRANSDUCT, 1400 JACKSON ST, DENVER, CO 80206 (Reprint); CHILDRENS HOSP, DEPT PEDIATR HEMATOL ONCOL,

DENVER, CO 80218

COUNTRY OF AUTHOR:

OR: US*P* 

SOURCE: CUR

CURRENT OPINION IN CELL BIOLOGY, (APR 1999) Vol.

11, No. 2, pp. 211-218.

Publisher: CURRENT BIOLOGY LTD, 34-42 CLEVELAND STREET,

Hours

LONDON W1P 6LE, ENGLAND.

ISSN: 0955-0674.

DOCUMENT TYPE:

General Review; Journal

FILE SEGMENT: LANGUAGE: LIFE English

REFERENCE COUNT:

58 . \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

Mitogen-activated protein kinases (MAPKs) are components of a three kinase regulatory cascade. There are multiple members of each component family of kinases in the MAPK module. Specificity of regulation is achieved by organization of MAPK modules, in part, by use of scaffolding and anchoring proteins. Scaffold proteins bring together specific kinases for selective activation, sequestration and localization of signaling complexes, The recent elucidation of scaffolding mechanisms for MAPK pathways has begun to solve the puzzle of how specificity in signaling can be achieved for each MAPK pathway in different cell types and in response to different stimuli. As new MAPK members are defined, determining their organization in kinase modules will be critical in understanding their select role in cellular regulation.

L9 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 2003020540 IN-PROCESS

DOCUMENT NUMBER: 22414944 PubMed ID: 12526744

TITLE: Caenorhabditis elegans Innate Immune Response Triggered by

Salmonella enterica Requires Intact LPS and Is Mediated by

a MAPK Signaling Pathway.

AUTHOR: Aballay Alejandro; Drenkard Eliana; Hilbun Layla R; Ausubel

Frederick M

CORPORATE SOURCE: Department of Genetics, Harvard Medical School and

Department of Molecular Biology, Massachusetts General

Hospital, 02114, Boston, MA, USA.

SOURCE: CURRENT BIOLOGY, (2003 Jan 8) 13 (1) 47-52.

Journal code: 9107782. ISSN: 0960-9822.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: IN-PROCESS; NONINDEXED; Priority Journals

as a C. elegans innate immune response to Salmonella.

ENTRY DATE: Entered STN: 20030116

Last Updated on STN: 20030116

AΒ Compared to mammals, insects, and plants, relatively little is known about innate immune responses in the nematode Caenorhabditis elegans. Previous work showed that Salmonella enterica serovars cause a persistent infection in the C. elegans intestine that triggers gonadal programmed cell death (PCD) and that C. elegans cell death (ced) mutants are more susceptible to Salmonella-mediated killing. To further dissect the role of PCD in C. elegans innate immunity, we identified both C. elegans and S. enterica factors that affect the elicitation of Salmonella-induced PCD. Salmonella-elicited PCD was shown to require the C. elegans homolog of the mammalian p38 mitogen-activated protein kinase (MAPK) encoded by the pmk-1 gene. Inactivation of pmk-1 by RNAi blocked Salmonella-elicited PCD, and epistasis analysis showed that CED-9 lies downstream of PMK-1. Wild-type Salmonella lipopolysaccharide (LPS) was also shown to be required for the elicitation of PCD, as well as for persistence of Salmonella in the C. elegans intestine. However, a presumptive C. elegans TOLL signaling pathway did not appear to be required for the PCD response to Salmonella. These results establish a PMK-1-dependant PCD pathway